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*Dikraneura fiebri* (Loew.).  
*Empoasca trifasciata* Gill.  
*Empoasca obtusa* Walsh.  
*Empoasca albolinea* Gill.  
*Empoasca alboneura* Gill.  
*Empoasca mali* (LeB.).  
*Empoasca flavescens* (Fabr.).  
*Empoasca aureoviridis* (Uhl.). [K. S. A. C.]  
*Empoasca viridescens* Walsh. [Tuck.]  
*Typhlocyba rosae* (Linn.).  
*Typhlocyba querci* var. *gillettei* Van D.  
*Hymetta trifasciata* (Say).  
*Erythroneura tricincta* Fh.  
*Erythroneura basilaris* (Say).  
*Erythroneura rubroscuta* (Gill.).  
*Erythroneura illinoiensis* (Gill.).  
*Erythroneura maculata* (Gill.).  
*Erythroneura scutelleris* (Gill.).  
*Erythroneura crevecae* (Gill.).  
*Erythroneura comes* (Say).  
*Erythroneura comes* var. *vitifex* Fh. [K. S. A. C.]  
*Erythroneura comes* var. *ziczac* Walsh.  
*Erythroneura comes* var. *vitis* (Harr.).  
*Erythroneura comes* var. *infuscata* (Gill.).  
*Erythroneura comes* var. *coloradensis* (Gill.).  
*Erythroneura comes* var. *octolineata* Walsh. [Tuck.]  
*Erythroneura obliqua* (Say).  
*Erythroneura obliqua* var. *nævus* (Gill.).  
*Erythroneura dorsalis* (Gill.).  
*Erythroneura fumida* (Gill.).  
*Erythroneura vulnerata* Fh.  
*Erythroneura nigra* (Gill.).

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### A List of the Grasses of Douglas County.

P. B. LAWSON.

While studying the leafhoppers of the state of Kansas the writer became interested in the grasses upon which these insects were found and in the seemingly large number of species that occurred within the boundaries of a single county.

This led to a study of the local flora in the field and to a simple study of the literature dealing with the records of the plants found in the county. The latter study revealed the fact that in late years very little work has been done in Kansas along this line, though in earlier years Prof. James Carruth, of the State University, and Professors Kellerman and Hitchcock, of the State Agricultural College, published several lists of the grasses found in the different parts of the state.

Most of the species recorded below have been seen by the writer. Some, however, are included in the list on the authority of the above men; a few added on the authority of Mr. Smyth; several species are represented in the herbariums of the State University and the State Agricultural College, which the writer has not seen in the field; and a few species are included on the authority of Dr. Grace Charles, of the botany department of the University of Kansas, to whom the writer is indebted for most generous help and instruction in the working out of this list. Species included in the list on the authority of any of the above, bear their names in parentheses.

## Tribe MAYDEÆ.

*Tripsacum dactyloides* L.

## Tribe ANDROPOGONEÆ.

*Schizachyrium scoparium* (Michx.) Nash.

*Andropogon furcatus* Muhl.

*Sorghastrum nutans* (L.) Nash.

*Holcus halepensis* L.

## Tribe PANICEÆ.

*Syntherisma sanguinale* (L.) Dulac.

*Leptoloma cognatum* (Schultes) Chase.

*Eriochloa punctata* (L.) W. Hamilton.

*Paspalum stramineum* Nash.

*Paspalum setaceum* Michx.

*Echinochloa crus-galli* (L.) Beauv.

*Panicum dichotomiflorum* Michx.

*Panicum capillare* L.

*Panicum virgatum* L.

*Panicum anceps* Michx. [Carruth.]

*Panicum agrostoides* Spreng. [K. S. A. C.]

*Panicum sphærocarpon* Ell.

*Panicum dichotomum* L.

*Panicum huachucae* Ashe.

*Panicum leibergii* (Vasey) Scribn.

*Panicum scribnerianum* Nash.

*Panicum oligosanthes* Schalt. [Carruth.]

*Panicum Wilcoxianum* Vasey.

*Panicum scoparium* Lam.

*Panicum clandestinum* L.

*Chætochloa glauca* (L.) Scribn.

*Chætochloa viridis* (L.) Scribn.

*Chætochloa italicica* (L.) Scribn.

*Cenchrus carolinianus* Walt.

## Tribe ORYZÆ.

*Homalocenchrus virginicus* (Willd.) Britton.

*Homalocenchrus oryzoides* (L.) Poll.

## Tribe PHALARIDEÆ.

*Phalaris arundinacea* L. [Carruth.]

## Tribe AGROSTIDEÆ.

*Stipa spartea* Trin.  
*Aristida oligantha* Michx.  
*Muhlenbergia schreberi* Gmel.  
*Muhlenbergia sobolifera* (Muhl.) Trin.  
*Muhlenbergia mexicana* (L.) Trin.  
*Muhlenbergia racemosa* (Michx.) B. S. P.  
*Muhlenbergia tenuiflora* (Willd.) B. S. P.  
*Muhlenbergia cuspidata* (Torr.) Nash. [Carruth.]  
*Brachyelytrum erectum* (Schreb.) Beauv. [Smyth.]  
*Phleum pratense* L.  
*Alopecurus geniculatus* L. [K. S. A. C.]  
*Sporobolus vaginæflorus* Torr.  
*Sporobolus neglectus* Nash.  
*Sporobolus asper* (Michx.) Kunth.  
*Sporobolus angustus* Buckley. [Carruth.]  
*Sporobolus cryptandrus* (Torr.) A. Gray.  
*Sporobolus heterolepis* A. Gray. [Carruth.]  
*Agrostis alba* L.  
*Agrostis canina* L.  
*Agrostis altissima* (Walt.) O. Tuckerm. [Carruth.]  
*Agrostis hyemalis* (Walt.) B. S. P.  
*Calamagrostis canadensis* (Michx.) Beauv. [Carruth.]

## Tribe CHLORIDEÆ.

*Capriola Dactylon* (L.) Kuntze.  
*Spartina Michauxiana* Hitchc.  
*Chloris verticillata* Nutt.  
*Schedonnardus paniculatus* (Nutt.) Trelease.  
*Bouteloua hirsuta* Lag. [Carruth.]  
*Bouteloua oligostachya* (Nutt.) Torr.  
*Ætheropogon curtipendulus* (Michx.) Tourn.  
*Eleusine indica* (L.) Gaertn.  
*Leptochloa filiformis* (Lam.) Beauv. [Carruth.]

## Tribe FESTUCEÆ.

*Phragmites phragmites* (L.) Karst.  
*Tridens flavus* (L.) Hitchc.  
*Triplasis purpurea* (Walt.) Chapm. [Carruth.]  
*Diplachne fascicularis* (Lam.) Beauv. [Carruth.]  
*Eragrostis capillaris* (L.) Nees. [Carruth.]  
*Eragrostis hirsuta* (Michx.) Nees.  
*Eragrostis Frankii* Steud. [Carruth.]  
*Eragrostis pilosa* (L.) Beauv.  
*Eragrostis major* Host.  
*Eragrostis pectinacea* (Michx.) Steud.  
*Eragrostis trichodes* (Nutt.) Nash. [Carruth.]  
*Eragrostis hypnoides* (Lam.) B. S. P.  
*Sphenopholis obtusata* (Michx.) Scribn.  
*Sphenopholis pallens* (Spreng.) Scribn.

*Kæleria cristata* (L.) Pers.  
*Melica mutica* Walt.  
*Korycarpus arundinaceus* Zea. [Carruth.]  
*Uniola latifolia* Michx.  
*Dactylis glomerata* L.  
*Poa pratensis* L.  
*Poa autumnalis* Muhl. [Smyth.]  
*Poa sylvestris* A. Gray.  
*Poa compressa* L.  
*Panicularia nervata* (Willd.) Kuntze.  
*Panicularia grandis* (S. Wats.) Nash. [Smyth.]  
*Festuca octoflora* Walt. [Carruth.]  
*Festuca ovina* L. [Carruth.]  
*Festuca elatior* L.  
*Festuca nutans* Willd.  
*Bromus ciliatus* L.  
*Bromus inermis* Leyn.  
*Bromus hordeaceus* L.  
*Bromus secalinus* L.  
*Bromus racemosus* L.

## Tribe HORDEÆ.

*Lolium perenne* L.  
*Agropyron tenerum* Vasey.  
*Hordeum nodosum* L.  
*Hordeum pusillum* Nutt.  
*Hordeum jubatum* L.  
*Elymus virginicus* L.  
*Elymus canadensis* L.  
*Elymus brachystachys* Scribn. & Ball. [Charles.]  
*Elymus striatus* Willd.  
*Hystrix hystrix* (L.) Millsp. [Carruth.]

## Field Work in Kansas and Texas.

By CHARLES H. STERNBERG.

On April 7, 1919, we left Lawrence in my Ford truck for western Kansas. Mr. Knoblock, of Quincy, Ill., was my driver. After a very disagreeable journey of seven days, on account of rain and bad roads, we reached Quinter, Kan. The next day we made our camp in Mr. Sampson's pasture on Hackberry creek. The canyons were filled with great snowdrifts, and the weather was bad for some time.

Two miles east of camp I found a beautiful plate of the crinoid *Untacrinus socialis*. They covered an area of eighteen square feet. In one case the arcs were spread over the plate for over three feet. This I sent to the state museum at Albany, N. Y.

After leaving this camp we went to the head of the canyon, east of Monument Rocks, in western Gove county. Mr. Lester Olds was my assistant, as Mr. Knoblock had returned home. Here I discovered two very fine specimens.